Hamilton, Scott [hamilton.scott@epa.gov] From:

Sent: 6/14/2018 12:56:27 PM

To: Coughlin, Justin [coughlin.justin@epa.gov]

Subject: FW: Duvas

Scott Hamilton Air Monitoring and Analysis Section Air and Radiation Division U.S. Environmental Protection Agency Phone: 312-353-4775

Mailing Address: USEPA Region 5 Scott Hamilton (AT-18J)

77 W Jackson Blvd Chicago, IL 60604

----Original Message----

From: Secrest, Cary

Sent: Wednesday, June 13, 2018 3:45 PM To: Hamilton, Scott hamilton.scott@epa.gov

Subject: RE: Duvas

ENFORCEMENT CONFIDENTIAL

Scott, it appears that O2 was not activated.

Mr. Cary Secrest EPA Office of Enforcement and Compliance Assurance Air Enforcement Division WJ Clinton Bldg, South, Rm. 2111A

1200 Pennsylvania Avenue, N.W.

Washington, D.C. 20004

Office: (202) 564-8661

"Be yourself. Everyone else is already taken." Oscar Wilde

----Original Message----From: Hamilton, Scott

Sent: Wednesday, June 13, 2018 4:19 PM To: Secrest, Cary <Secrest.Cary@epa.gov>

Subject: RE: Duvas

On its way. 15MB so might take a min

Scott Hamilton

Air Monitoring and Analysis Section

Air and Radiation Division

U.S. Environmental Protection Agency Phone: 312-353-4775

Mailing Address:

USEPA Region 5 Scott Hamilton (AT-18J) 77 W Jackson Blvd Chicago, IL 60604

----Original Message----

From: Secrest, Cary

Sent: Wednesday, June 13, 2018 3:13 PM To: Hamilton, Scott hamilton.scott@epa.gov

Subject: RE: Duvas

ENFORCEMENT CONFIDENTIAL

Hi Scott:

This Excel online is driving me crazy. Can you send me the excel file?

Mr. Cary Secrest

EPA Office of Enforcement and Compliance Assurance Air Enforcement Division WJ Clinton Bldg, South, Rm. 2111A

1200 Pennsylvania Avenue, N.W.

Washington, D.C. 20004

Office: (202) 564-8661

"Be yourself. Everyone else is already taken." Oscar Wilde

----Original Message----

From: Hamilton, Scott Sent: Wednesday, June 13, 2018 2:24 PM To: Secrest, Cary <Secrest.Cary@epa.gov>

Subject: RE: Duvas

This is one file we have. What do you think? See this link: https://usepa-my.sharepoint.com/:x:/r/personal/hamilton_scott_epa_gov/Documents/GMAP/Data%20and%20Project%20Info/2018/Middletown%20and%20Chillicothe%20OH/1805_MIDDLETOWNOH_2/2018-05-23-Datalog.csv?d=w9d4241adc100409183648318584f573d&csf=1&e=hqKeEd

Scott Hamilton
Air Monitoring and Analysis Section
Air and Radiation Division
U.S. Environmental Protection Agency
Phone: 312-353-4775

Mailing Address: USEPA Region 5 Scott Hamilton (AT-18J) 77 W Jackson Blvd Chicago, IL 60604

----Original Message----

From: Secrest, Cary

Sent: Wednesday, June 13, 2018 12:32 PM

To: Hamilton, Scott <hamilton.scott@epa.gov>; Thoma, Eben <Thoma.Eben@epa.gov>

Cc: Whipple, Wayne <whipple.wayne@epa.gov>; Coughlin, Justin <coughlin.justin@epa.gov>; Fuoco, Marta

<fuoco.marta@epa.gov>

Subject: Duvas

Scott:

The Raw data files (one each second) have the x,y's for the spectra and perhaps comparing the measurements with the cal might be useful to see if the measured spectra indicates an interference.

The other approach, one that I would take, would be to look at the column to the right of the benzene concentration, which is the signal to noise ratio, which I expect would become quite high with an interference (the SNR indicates the fitting agreement between the measured spectrum and the library spectrum).

Mr. Cary Secrest

EPA Office of Enforcement and Compliance Assurance Air Enforcement Division WJ Clinton Bldg, South, Rm. 2111A

2111A 1200 Pennsylvania Avenue, N.W.

Washington, D.C. 20004

office: (202) 564-8661

"Be yourself. Everyone else is already taken." Oscar Wilde

----Original Message-----From: Hamilton, Scott

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Sent: Wednesday, June 13, 2018 1:09 PM
To: Thoma, Eben < Thoma. Eben@epa.gov>
Cc: Secrest, Cary <Secrest.Cary@epa.gov>; Whipple, Wayne <whipple.wayne@epa.gov>; Coughlin, Justin
<coughlin.justin@epa.gov>; Fuoco, Marta <fuoco.marta@epa.gov>
Subject: RE: Sorry for confusion on the time
This is Justin's comparison data.
Scott Hamilton
Air Monitoring and Analysis Section
Air and Radiation Division
U.S. Environmental Protection Agency
Phone: 312-353-4775
Mailing Address:
USEPA Region 5
Scott Hamilton (AT-18J)
77 W Jackson Blvd
Chicago, IL 60604
----Original Message----
From: Thoma, Eben
Sent: Wednesday, June 13, 2018 11:53 AM
To: Hamilton, Scott <a href="mailton.scott@epa.gov">hamilton.scott@epa.gov</a>
Cc: Secrest, Cary <Secrest.Cary@epa.gov>; Whipple, Wayne <whipple.wayne@epa.gov>; Coughlin, Justin
<coughlin.justin@epa.gov>
Subject: Re: Sorry for confusion on the time
Oh, and can you resend the Excel file? I thought I saw one attached to the meeting invite but it
disappeared when I reject s the invite.
Thanks,
Eben
Sent from my iPhone
> On Jun 13, 2018, at 12:32 PM, Thoma, Eben <Thoma. Eben@epa.gov> wrote:
> Sorry, didn't finish thought (at the docs with a tweaked back)
> Anyway, if just open the raw spectra in with out background subtraction it may be hard to see the benzene spectral features. You can try do background sub in excell but you will need two spectra
relatively closes in time (with and withou benzene, ratio then.
> In general it would be good to have the benzene reference spectra from the DUVAS a couple of the cal
spectra (100ppb) a couple field spectra near the same level as the cal (100ppb) and then an assortment of
the higher reading spectra to compare.
> Eben
> Sent from my iPhone
>> On Jun 13, 2018, at 12:22 PM, Thoma, Eben <Thoma.Eben@epa.gov> wrote:
>>
>> Thanks Scott.
>>
>> First off ideally you want the use the DUVAS software to reprocess the data so you can see resultant
absorbable spectra. I can't recall how to do that exactly but should be possible. Do you have the
DUVAS software installed on your desk pc (with the dongle)? If not, I can see how that would be harder
to due from the field unit.
>>
>>
>>
>> Sent from my iPhone
>>> On Jun 13, 2018, at 12:15 PM, Hamilton, Scott <hamilton.scott@epa.gov> wrote:
>>>
>>> No problem at all.
>>>
>>>ঁ I can plot them in excel but I'm still not too sure what I am looking for as far as differences
between the two (calibration gas versus field measurement) plots.
>>> Scott Hamilton
>>> Air Monitoring and Analysis Section
>>> Air and Radiation Division
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>>> U.S. Environmental Protection Agency
>>> Phone: 312-353-4775
>>>
>>> Mailing Address:
>>> USEPA Region 5
>>> Scott Hamilton (AT-18J)
>>> 77 W Jackson Blvd
>>> Chicago, IL 60604
>>>
>>>
>>>
>>> ----Original Message----
>>> From: Thoma, Eben
>>> Sent: Wednesday, June 13, 2018 11:09 AM
>>> To: Hamilton, Scott <a href="mailton.scott@epa.gov">>>> To: Hamilton, Scott <a href="mailton.scott@epa.gov">>> To: Hamilton, Scott <a href="mailton.scott@epa.gov">>> To: Hamilton, Scott <a href="mailton.scott@epa.gov">>> To: Hamilton.scott@epa.gov</a>
>>> Cc: Secrest, Cary <Secrest.Cary@epa.gov>
>>> Subject: Sorry for confusion on the time
>>> Scott, sorry I can't make the call tomorrow at 10:00 am. As suggested, I would pick-out several
spectra to take a look at the benzene spectral signal in comparison to he cal signal.
>>> Cary, it I have been a while since I used the DUVAS. And don't have the software installed.
easy to read in and process fields spectra and set the background file?
>>> Just suggesting a reality check on a range of the spectra.
>>>
>>> Thanks,
>>>
>>> Eben
>>>
>>> Sent from my iPhone
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